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## What is claimed is:

- 1. A method for applying individualized calibrated tone-reproduction curves on a single page basis to enable printing of image data associated with a job having a plurality of pages, comprising the steps of:
- (a) providing a plurality of calibrated tone-reproduction curves, each calibrated tone-reproduction curve corresponding to a distinct media type;
  - (b) assigning a first media type to a first group of pages in the job;
  - (c) assigning a second media type to a second group of pages in the job;
  - (d) receiving a page of image data to be printed;
- (e) selecting a calibrated tone-reproduction curve for the received page of image data based on the assigned media type; and
- (f) applying the selected calibrated tone-reproduction curve to print the page of image data.
  - 2. The method as claimed in claim 1, further comprising the step of:
- (g) printing of image data on a xerographic printing device using the selected calibrated tone-reproduction curve.
- 3. The method as claimed in claim 1, further comprising the step of:
  - (g) determining a halftone to be used in printing the image data;

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said step (a) providing a plurality of calibrated tone-reproduction curves, each calibrated tone-reproduction curve corresponding to a distinct halftone type and media type combination;

said step (e) selecting a calibrated tone-reproduction curve based on the assigned media type and determined halftone type.

- 4. The method as claimed in claim 1, further comprising the steps of:
- (g) performing a plurality of calibration operations, each calibration operation using a distinct media type;
  - (h) generating a tone-reproduction curve for each media type; and
  - (i) storing the generated the tone-reproduction curves;

said step (a) providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type.

5. The method as claimed in claim 1, further comprising the steps of:

- (g) performing a plurality of calibration operations, each calibration operation using a distinct media type and halftone type combination;
- (h) generating a tone-reproduction curve for each media type and halftone type combination;
  - (i) storing the generated the tone-reproduction curves; and
  - (j) determining a halftone to be used in printing the image data;

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Patent Application
Attorney Docket: XER20409
D/A0652Q

said step (a) providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type and halftone type combination;

said step (e) selecting a calibrated tone-reproduction curve based on the assigned media type and determined halftone type.

- 6. The method as claimed in claim 1, further comprising the steps of:
- (g) performing a plurality of calibration operations, each calibration operation using a distinct media type;
  - (h) generating a tone-reproduction curve for each media type calibration;
- (i) comparing the plurality of tone-reproduction curves to group tone-reproduction curves having similar characteristics;
- (j) selecting a single tone-reproduction curve from a group of tone-reproduction curves having similar characteristics, each single tone-reproduction curve being the tone-reproduction curve associated with the media types that generated the tone-reproduction curve having similar characteristics;
  - (k) storing selected and non-grouped tone-reproduction curves; and
- (l) generating a map to link a stored tone-reproduction curve to a media type, a stored tone-reproduction curve being capable of being mapped to more than one media type;

said step (a) providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type.

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- 7. The method as claimed in claim 1, further comprising the steps of:
- (g) performing a plurality of calibration operations, each calibration operation using a distinct media type and halftone type combination;
- (h) generating a tone-reproduction curve for each media type and halftone type combination calibration;
  - (i) comparing the plurality of tone-reproduction curves to group tone-reproduction curves having similar characteristics;
  - (j) selecting a single tone-reproduction curve from a group of tone-reproduction curves having similar characteristics, each single tone-reproduction curve being the tone-reproduction curve associated with the media type and halftone type combinations that generated the tone-reproduction curve having similar characteristics;
    - (k) storing selected and non-grouped tone-reproduction curves; and
  - (l) generating a map to link a stored tone-reproduction curve to a media type and halftone type combination, a stored tone-reproduction curve being capable of being mapped to more than one media type and halftone type combination; and
    - (m) determining a halftone to be used in printing the image data;

said step (a) providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type and halftone type combination;

said step (e) selecting a calibrated tone-reproduction curve based on the assigned media type and determined halftone type.

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D/A0652O

Patent Application

8. A system for applying individualized calibrated tone-reproduction curves on a single page basis to enable printing of image data associated with a job having a plurality of pages, comprising:

a storage device to store and provide a plurality of calibrated tone-reproduction curves, each calibrated tone-reproduction curve corresponding to a distinct media type;

an input device to assign a first media type to a first group of pages in the job and to assign a second media type to a second group of pages in the job; and

a processor to receiving a page of image data to be printed, to select a calibrated tone-reproduction curve for the received page of image data based on the assigned media type, and to apply the selected calibrated tone-reproduction curve to print the page of image data.

9. The system as claimed in claim 8, further comprising:

a xerographic printing device using the selected calibrated tone-reproduction curve to print images.

10. The system as claimed in claim 8, wherein:

said input device selects a halftone to be used in printing the image data;

said storage device provides a plurality of calibrated tone-reproduction curves, each calibrated tone-reproduction curve corresponding to a distinct halftone type and media type combination;

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Patent Application
Attorney Docket: XER20409
D/A0652Q

said processor selects a calibrated tone-reproduction curve based on the assigned media type and selected halftone type.

11. The system as claimed in claim 8, further comprising:

5 calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type;

said calibration means generating a tone-reproduction curve for each media type;
said storage device storing the generated the tone-reproduction curves and
providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated
tone-reproduction curve corresponding to a distinct media type.

12. The system as claimed in claim 8, further comprising:

calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type;

said calibration means generating a tone-reproduction curve for each media type; said input device selecting a halftone to be used in printing the image data;

said storage device storing the generated the tone-reproduction curves and providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct halftone type and media type combination;

said processor selecting a calibrated tone-reproduction curve based on the assigned media type and selected halftone type.

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Patent Application
Attorney Docket: XER20409
D/A0652Q

13. The system as claimed in claim 8, further comprising:

calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type;

said calibration means generating a tone-reproduction curve for each media type calibration;

said calibration means comparing the plurality of tone-reproduction curves to group tone-reproduction curves having similar characteristics;

said calibration means selecting a single tone-reproduction curve from a group of tone-reproduction curves having similar characteristics, each single tone-reproduction curve being the tone-reproduction curve associated with the media types that generated the tone-reproduction curve having similar characteristics;

said storage device storing selected and non-grouped tone-reproduction curves;
said calibration means generating a map to link a stored tone-reproduction curve
to a media type, a stored tone-reproduction curve being capable of being mapped to more
than one media type;

said storage device providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type.

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14. The system as claimed in claim 8, further comprising:

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calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type and halftone type combination;

said calibration means generating a tone-reproduction curve for each media type and halftone type combination calibration;

said calibration means comparing the plurality of tone-reproduction curves to group tone-reproduction curves having similar characteristics;

said calibration means selecting a single tone-reproduction curve from a group of tone-reproduction curves having similar characteristics, each single tone-reproduction curve being the tone-reproduction curve associated with the media type and halftone type combinations that generated the tone-reproduction curve having similar characteristics;

said storage device storing both selected and non-grouped tone-reproduction curves;

said calibration means generating a map to link a stored tone-reproduction curve to a media type and halftone type combination, a stored tone-reproduction curve being capable of being mapped to more than one media type and halftone type combination; and

said input device selecting a halftone to be used in printing the image data;

said storage device providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type and halftone type combination;

said processor selecting a calibrated tone-reproduction curve based on the assigned media type and selected halftone type.

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Patent Application
Attorney Docket: XER20409
D/A06520

15. The system as claimed in claim 8, further comprising:

an auto-segmentation circuit to determine a halftone to be used in printing the image data;

said storage device providing a plurality of calibrated tone-reproduction curves, each calibrated tone-reproduction curve corresponding to a distinct halftone type and media type combination;

said processor selecting a calibrated tone-reproduction curve based on the assigned media type and determined halftone type.

16. The system as claimed in claim 8, further comprising:

calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type;

said calibration means generating a tone-reproduction curve for each media type; and

an auto-segmentation circuit to determine a halftone to be used in printing the image data;

said storage device storing the generated the tone-reproduction curves and providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct halftone type and media type combination;

said processor selecting a calibrated tone-reproduction curve based on the assigned media type and determined halftone type.

- 17. A method for applying individualized calibrated tone-reproduction curves on a single page basis to enable printing of image data associated with a job having a plurality of pages, comprising the steps of:
- (a) performing a plurality of calibration operations, each calibration operation using a distinct media type;
  - (b) generating a tone-reproduction curve for each media type;
  - (c) storing the generated the tone-reproduction curves;
  - (d) assigning a first media type to a first group of pages in the job;
  - (e) assigning a second media type to a second group of pages in the job;
  - (f) receiving a page of image data to be printed;
- (g) selecting a calibrated tone-reproduction curve for the received page of image data based on the assigned media type; and
- (h) applying the selected calibrated tone-reproduction curve to print the page of image data.
  - 18. The method as claimed in claim 17, further comprising the step of:
- (i) printing of image data on a xerographic printing device using the selected calibrated tone-reproduction curve.